Angular Fundamentals
Korte herhaling dag 1

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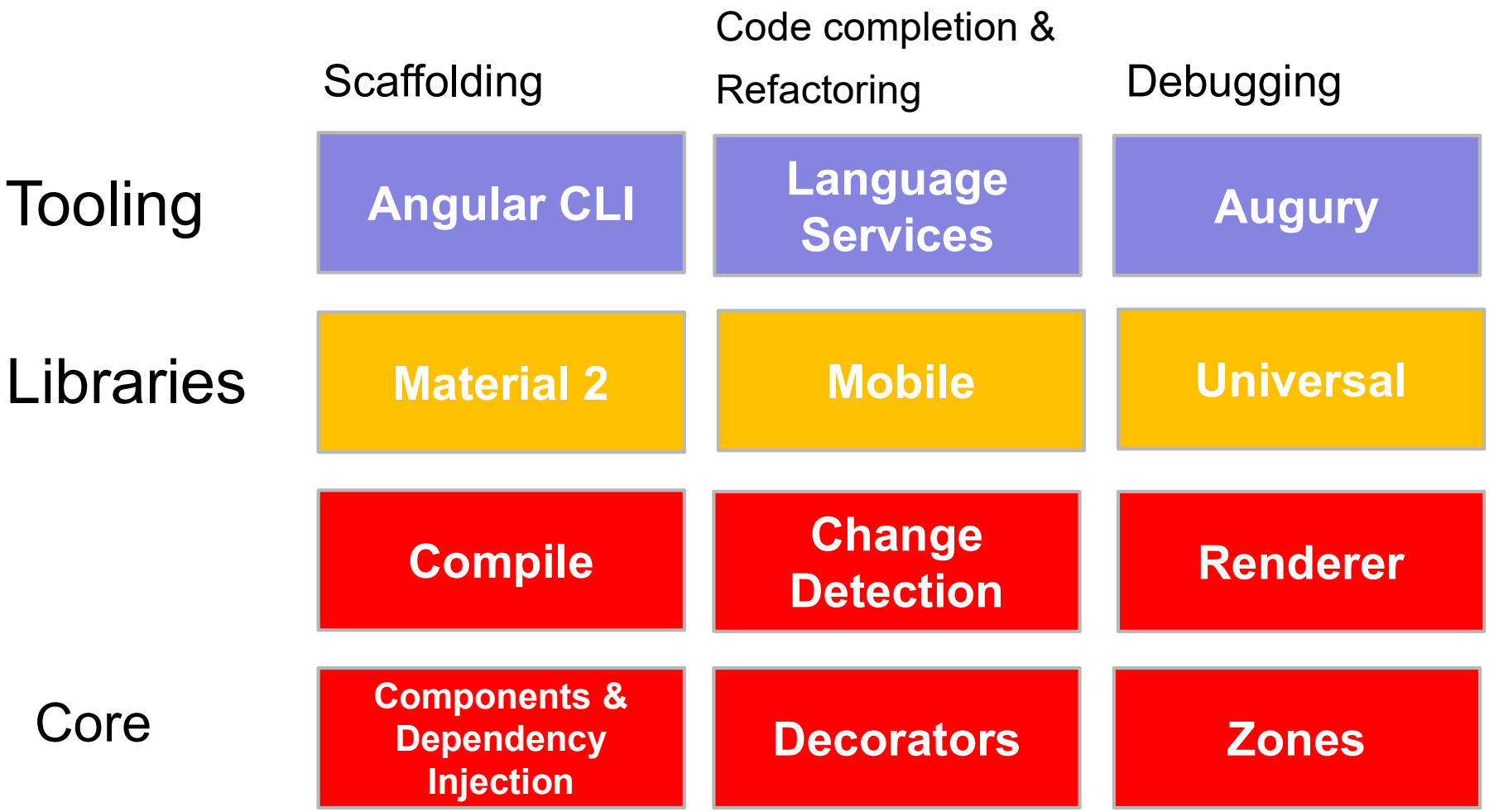
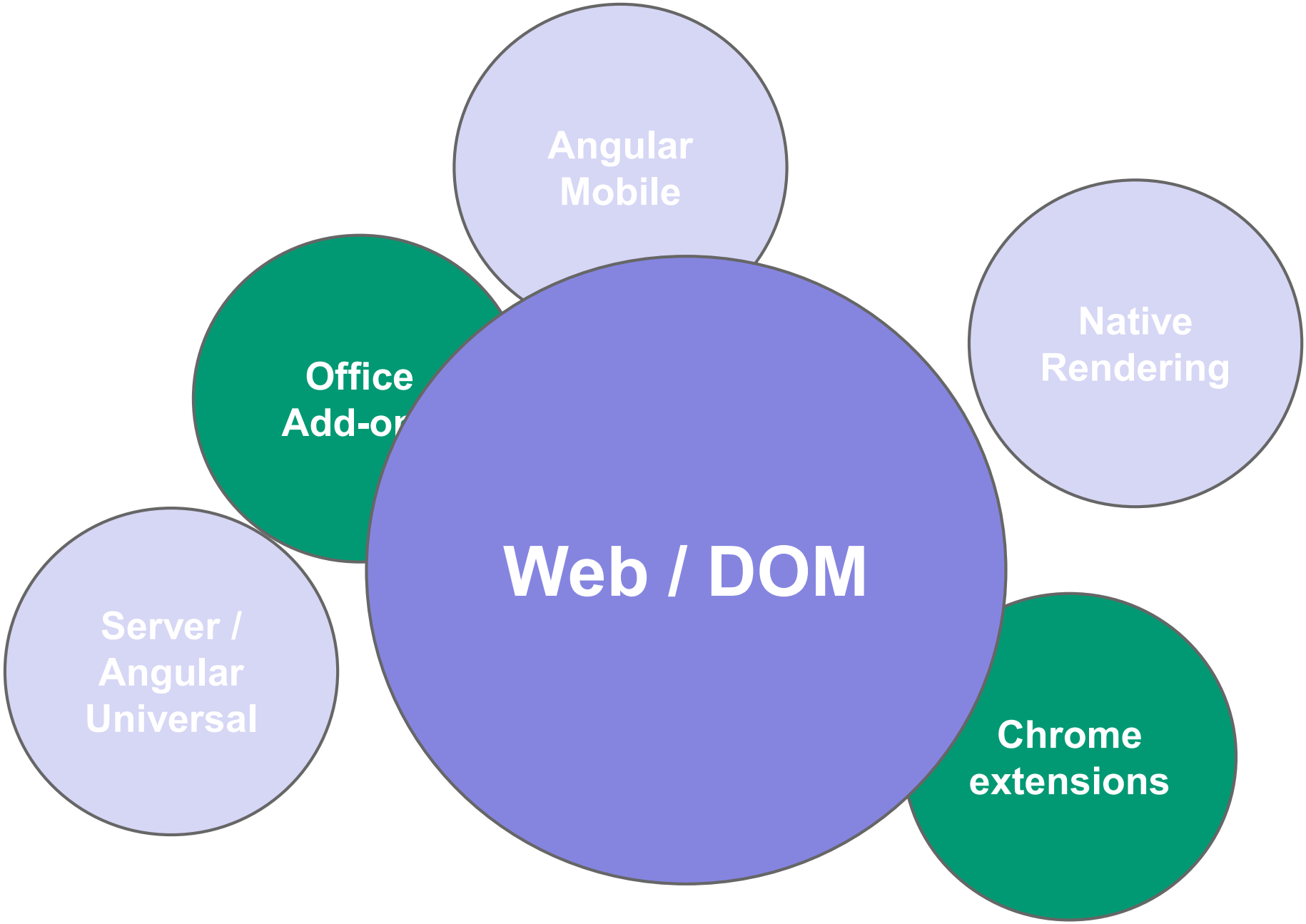
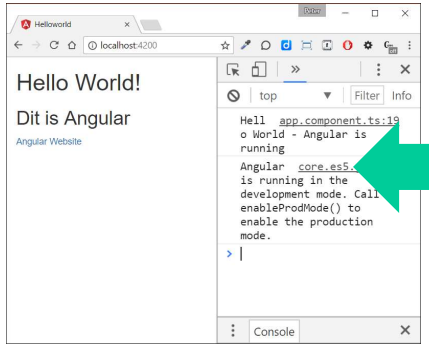
Framework to Platform




Angular
Mobile
Native
Rendering
Office
Add-or
Web / DOM
Server /
Angular
Universal
Chrome
extensions



main.ts / bootstrapper

ngModule / root module

AppComponent

Other components

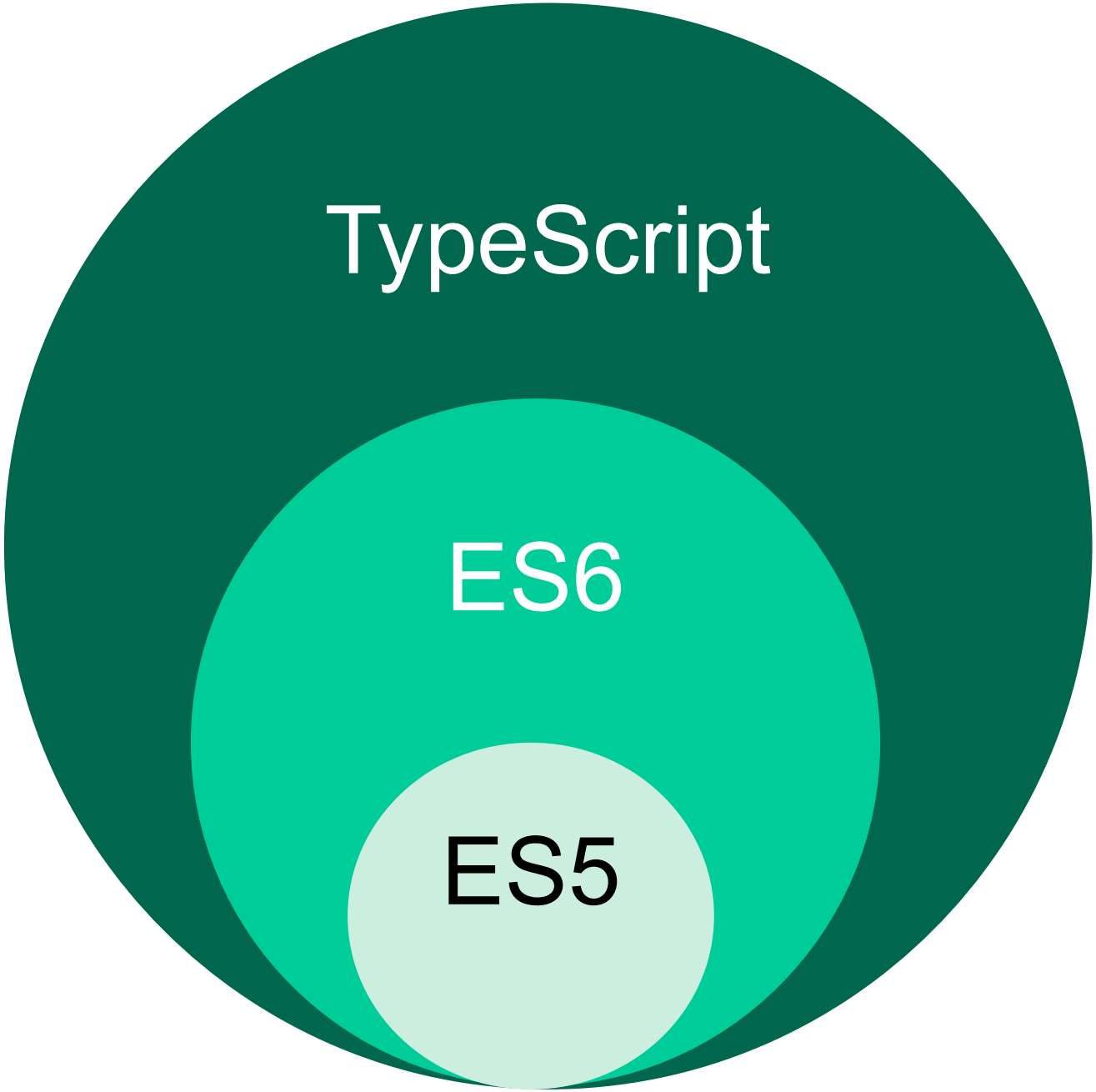
Other components

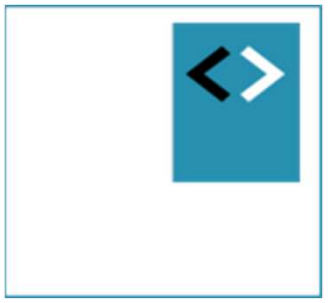
Other components

Services

3rd party libs

Other modules

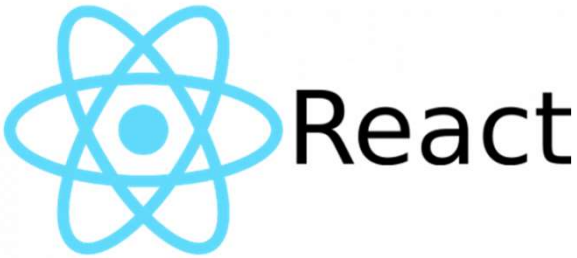

TypeScript
ES6
ES5



A little bit on Frontend Frameworks

Similarities/Differences

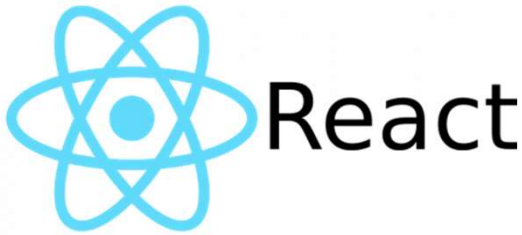
Similarities



- Creating Single Page Applications
- Based on components
- Data binding, props, events, routing, state management, …
- Huge ecosystem
- Huge community
- High adaptation rate

Differences (apart from syntax)

- Point of departure: HTML template, enhanced with framework specific tags and attributes
- One-stop-shop / solution



- Point of departure: JavaScript, JavaScript, JavaScript (JSX)
- Build-all-yourself

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Angular vs React vs Vue: Which Framework to Choose in 2020

by Shaumik Daityari / october 26, 2020 / web & app frameworks

This post is a comprehensive guide on which is perhaps the right solution for you: **Angular vs React vs Vue**.

Just a couple of years ago, developers were mainly debating on whether they should be using Angular vs React for their projects. But over the course of the last couple of years, we saw a growth of interest in a third player called Vue.js.

If you are a developer starting out on a project and cannot decide on which JavaScript framework to use, this guide should help you make a decision.

We cover various aspects of Angular, Vue, and React to see how they suit your needs. This post is not just a guide on Angular vs React vs Vue but aims to provide a structure to help judge front-end JavaScript frameworks in general. In case a new framework arrives next year, you will know exactly what parameters to look at!

** In this post, we assume that you have basic knowledge of JavaScript and have used JavaScript frameworks as well*

Which #javascript framework to choose in 2020: @angular vs @vuejs vs @reactjs 🤔

CLICK TO TWEET

https://www.codeinwp.com/blog/angular-vs-vue-vs-react/

Boilerplate code - stappenplan

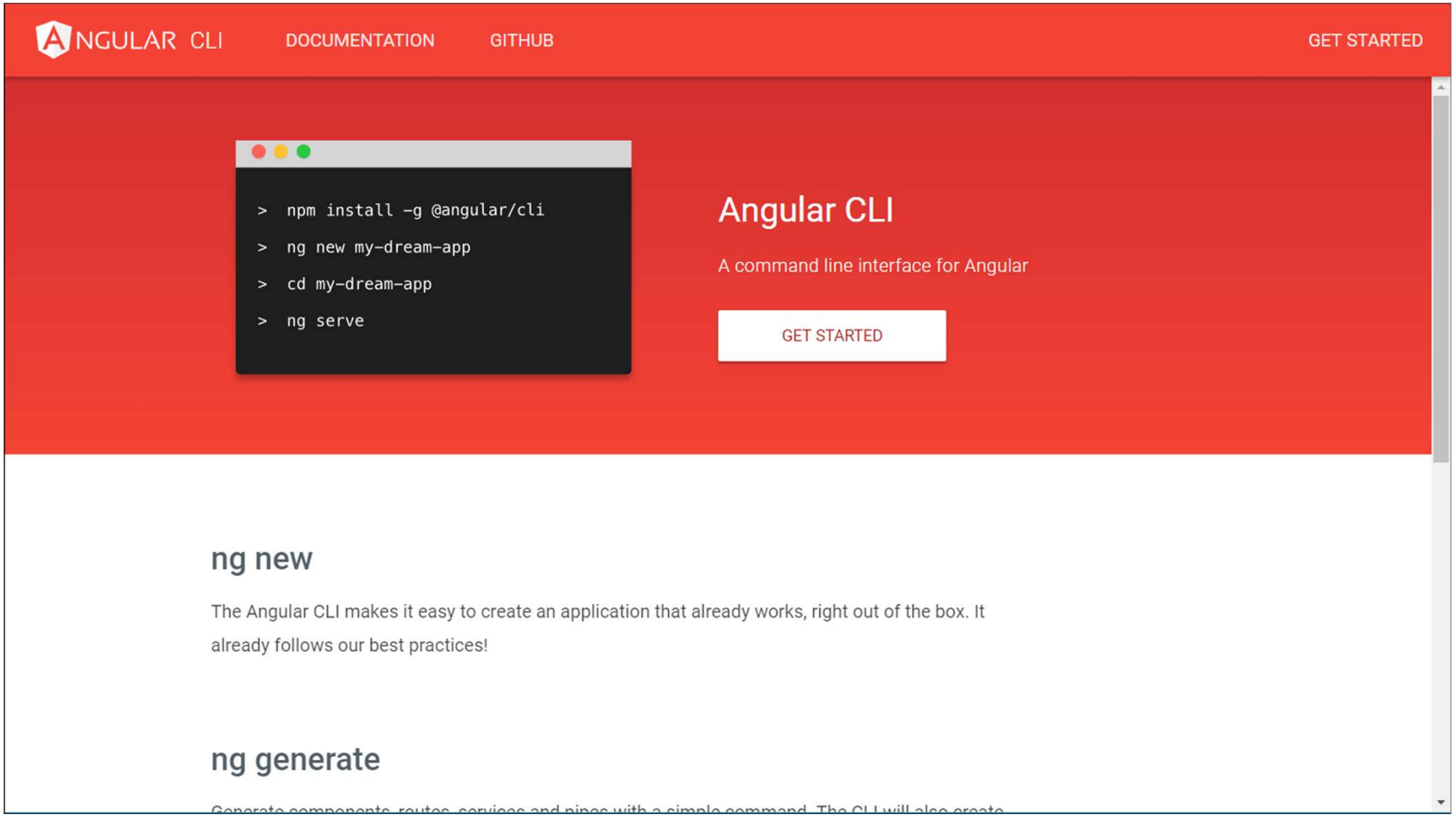
1. Set up environment, boilerplate & libraries
   - `npm install`
2. Schrijf Angular Root Component & Module voor de app
3. Bootstrap
4. Schrijf HTML-pagina (`index.html`)
5. Run applicatie
   - `npm start`

Components

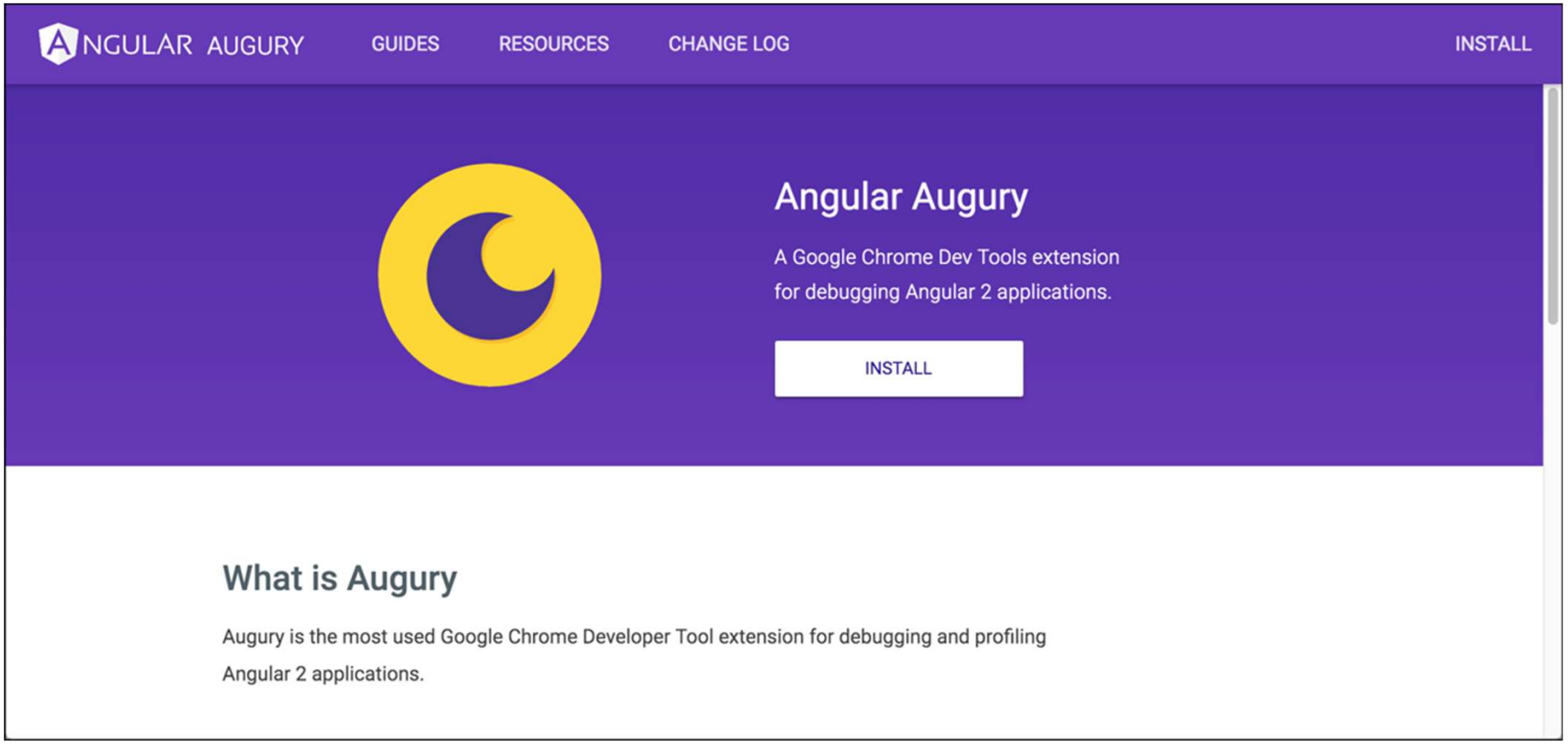
- `@Component` decorator
- View
- Controller / Class

```
import { Component, OnInit } from '@angular/core';

@Component({
    selector: 'app-customer',
    templateUrl: './customer.component.html',
    styleUrls: ['./customer.component.css']
})
export class CustomerComponent implements OnInit {

    constructor() {}

    ngOnInit() {}
}
```

Angular CLI


ANGULAR CLI
DOCUMENTATION
GITHUB
GET STARTED
> npm install -g @angular/cli
> ng new my-dream-app
> cd my-dream-app
> ng serve
Angular CLI
A command line interface for Angular
GET STARTED
ng new
The Angular CLI makes it easy to create an application that already works, right out of the box. It already follows our best practices!
ng generate

Debugging/Analyse tool - Augury



https://augury.angular.io/

Ng serve

- Vervult verschillende rollen (*kan* ook handmatig)
  1. TypeScript compilation
  2. (SASS compilation)
  3. Fire up webserver on http://localhost:4200
  4. Fire up Live Reload
  5. Analyzing and bundling of application by firing up WebPack
  6. Watch for changes and recompile, rebundle, etc.

Data binding

- Notatiewijze in HTML-views/templates
  1. Simple data binding `{{ … }}`
  2. Event binding `(…)="..."`
  3. One-way data binding `[…]="..."`
  4. Two-way data binding `[(ngModel)] = " …"`

Vandaag

- Afronden data binding – two-way binding
- Services
  - Static Services
  - Dependency Injection / `@Injectable()`
  - `HttpClientModule`,
  - RxJS / Observables, Live API's
- Component Communication, `@Input()`, `@Output()`

Morgen

- Component Communication, `@Input(), @Output()`
  - Custom event bus
- Routing
  - Basic routing
  - Routing parameters
- Forms
  - Template Driven Forms
  - Reactive Forms
- Evals & Goodbye…